Power Plant Troubleshooting and Engineering Problem Solving Course

Venue Information

Venue: London UK

Place:

Start Date: 2026-12-22

End Date: 2026-12-26

Course Details

Net Fee: £4750.00

Duration: 1 Week

Category ID: EAPET

Course Code: EAPET-47

Syllabus

Course Description

Excellent Troubleshooting skills are considered a core competency for 'Best-in-Class' modern industrial companies. If your company's goals include minimizing downtime then this workshop is a must because it delivers rapid, efficient Troubleshooting.

The following aspects will be addressed:

- Problem Solving Terminology
- Numerous Tools and Techniques
- A standard "Blue-Print" for problem analysis and resolution
- Strategies; Planning; and Protocols
- Variability Analysis

Participants attending the program will:

- Understand how to become a 'Top Gun' Trouble-Shooter
- Develop a structured approach to Troubleshooting and Problem Solving which uses a common terminology and shared understanding
- Point the way to Continuous Improvement in the way you run your processes and make incremental efficiency gains
- Understand the difference between having a techniques manual on the bookshelf – and actually making it work
- Identify the "motivated" people who should be the champions of Troubleshooting and Problem Solving – and who should just follow
- Understand work practices which "allow" success in Troubleshooting and Problem Solving

Course Outline

Introductory Concepts

- The nature of problems
- A Common Terminology
- Context – Asset based or Business Process based
- Structured approaches – 6 Big Losses, 7 Wastes
- Techniques introduction
- Tools introduction
- A Six Level Performance Standard
- Critical Relationships

Tools & Techniques – Practical Experience

- Decision Logic
- Maturity Indexing
- Relationships Analysis
- Problem Analysis and Synthesis
- Practical Use of Tools and Techniques
- Case Studies
- Project selection methods
- Tools & Techniques – selecting the right one

People Issues

- External vs. Internal Motivation
- Developing Troubleshooting and Problem Solving skills
- Managing change
- Transition Matrix
- Fractation

Operator, Maintainer, Designer Interface

- Cross functional working
- Effect of Maintenance strategy
- Functional Contribution analysis
- Life Cycle Analysis, Design for Operation, Design for Maintenance
- Variability Analysis
- Strategies; Planning; and Protocols
- Effect of improved “Fit” between critical parameters in Operations
- Continuous Improvement

Open Forum

- Review of Concepts, Tools and Techniques
- Your Problems – Your Case Studies
- Your Action Plan
- Configuration Management
- Commercial Programs
- Application of “Standard Questions”
- The Four critical stages of Data Maturity
- Wrap up